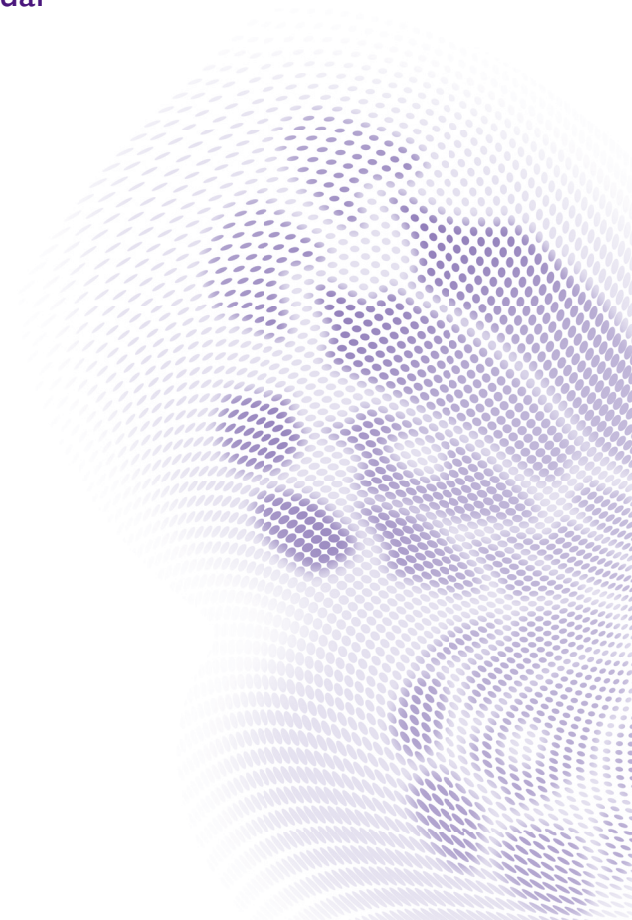
# GH700
# Digital Camera
# User Manual



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## BenQ ecoFACTS

BenQ has been dedicated to the design and development of greener product as part of its aspiration to realize the ideal of the "Bringing Enjoyment 'N Quality to Life" corporate vision with the ultimate goal to achieve a low-carbon society. Besides meeting international regulatory requirement and standards pertaining to environmental management, BenQ has spared no efforts in pushing our initiatives further to incorporate life cycle design in the aspects of material selection, manufacturing, packaging, transportation, using and disposal of the products. BenQ ecoFACTS label lists key eco-friendly design highlights of each product, hoping to ensure that consumers make informed green choices at purchase. Check out BenQ's CSR Website at http://csr.BenQ.com/ for more details on BenQ's environmental commitments and achievements.

## WEEE directive

Disposal of Waste Electrical and Electronic Equipment and/or Battery by users in private households in the European Union.

This symbol on the product or on the packaging indicates that this can not be disposed of as household waste. You must dispose of your waste equipment and/or battery by handling it over to the applicable take-back scheme for the recycling of electrical and electronic equipment and/or battery. For more information about recycling of this equipment and/or battery, please contact your city office, the shop where you purchased the equipment or your household waste disposal service. The recycling of materials will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and environment.

Recycling information: See http://www.benq.com/support/recycle for details.

## CE Regulatory Notice

This devise is herewith confirmed to comply with the requirements set out in the Council Directives on the Approximation of the Laws of the Member States relating Electromagnetic Compatibility (2004/108/EC); the Low Voltage Directive (2006/95/EC); the Restriction of The Use of Certain Hazardous Substances in Electrical And Electronic Equipment Directive (2002/95/EC), Turkish EEE Directive; the Commission Regulation (EC) No 1275/2008 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to eco-design requirements for standby and off mode electric power consumption of electrical and electronic household and office equipment, and the Directive 2009/125/EC of the European parliament and of the council establishing a framework for the setting of eco-design requirements for energy-related products.

## FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

## Safety warning and notice

Before operating the camera, please make sure that you read and fully understand the content in this section. If you ignore and violate all safety warning notices indicated in this section, the camera warranty may be void. Meanwhile, not only the camera but also you and all other people and things around you may be severely damaged, injured, or even placed in danger of death.

### For your safety

- Keep the camera and its accessories out of the reach of babies, toddlers, and children. In particular, small parts such as memory cards and batteries could be easily dismantled and swallowed by them.
- Use only the original accessories to avoid possible risks to health and property, and thus meet all related legal regulations.
- Do not dismantle the camera under any circumstances.
- When using the flash, do not go too close to human eyes (particularly for babies, toddlers, and children) or animal eyes. Otherwise, when the flash fires, the light may cause damage to human eyes or irritate animals.
- Batteries could explode, for instance. All batteries can cause property damage, injury or burns if a conductive material such as jewelry, keys or beaded chains touch exposed terminals. The material may complete an electrical circuit and become quite hot. Exercise care in handling any batteries, particularly when placing it inside your pocket, purse, or other container with metal objects. Do not dispose of batteries in fire as they may explode.
- To prevent electric shock, do not attempt to disassemble or repair your camera by yourself.
- Some camera models accept non-rechargeable batteries. When using these batteries, do not charge them. Otherwise, dangers such as explosion and fire may occur.
- Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

## Warranty

- Warranty is void if damage or system failure occurred due to outside factors such as collision, fire, flood, dirt, sewage, earthquake, and other force majeure events as well as incorrect usage of electricity or use of non-original accessories.
- It is the sole responsibility of the user if problems (such as data loss and system failure) occurred due to non-factory installed software, parts, and/or non-original accessories.
- Do not change the camera. Any changes to the camera invalidate the warranty.

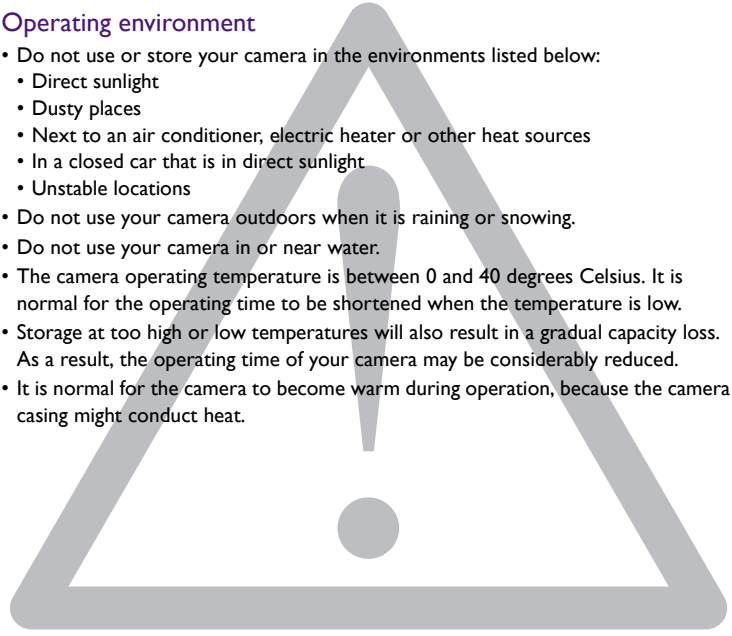
## Taking care of your camera

- Always keep the camera in the accompanying leather case or pouch for better protection against splashes, dust, and collision.
- The only way of replacing the battery and the memory card is to open the battery/card cover.
- Dispose of unwanted batteries and cameras as permitted by the laws in your countries.
- Water may cause a fire or electric shock. Therefore, store your camera in a dry place.
- If your camera becomes wet, wipe it with a dry cloth as soon as possible.
- Salt or seawater may cause severe camera damage.
- Do not drop, knock, or shake the camera. A rude behavior of using the camera may damage the internal electronic circuit board, deform the lens shape, or make the lens unretractable.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the camera.
- Finger grease may be left on the camera lens and will result in unclear images or videos. To avoid this problem, be sure to clean the camera lens before taking pictures or recording videos. You should also clean the camera lens on a regular basis.
- If the lens is dirty, use a lens brush or soft cloth to clean the lens.
- Do not touch the lens with your fingers.
- If a foreign substance or water gets in your camera, please turn the power off immediately and disconnect the batteries. Next, remove the foreign substance or water and send it to the maintenance center.
- Whenever there is data in the internal memory or the external memory card, you should make a backup copy to a computer or disc. So, you can have a backup solution if data loss occurs.
- If the lens cannot retract into the camera, please replace the batteries first (usually this is because of drained batteries). Then the lens should retract automatically. If the lens still cannot retract, please contact your dealer.

- Under no circumstances should you push the lens back manually as this may damage the camera.
- All original accessories are designed only for use with this camera model you purchased. Do not use these accessories with other camera models or cameras of other brands to avoid unpredictable danger or damage.
- Before initial use of a memory card, always use the camera to format the card first.
- Remember to slide the write-protect tab (if available) to the unlock position. Otherwise, all data (if any) on the memory card is protected and the card cannot be edited or formatted.

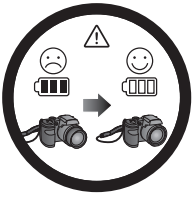
## Operating environment

- Do not use or store your camera in the environments listed below:
  - Direct sunlight
  - Dusty places
  - Next to an air conditioner, electric heater or other heat sources
  - In a closed car that is in direct sunlight
  - Unstable locations
- Do not use your camera outdoors when it is raining or snowing.
- Do not use your camera in or near water.
- The camera operating temperature is between 0 and 40 degrees Celsius. It is normal for the operating time to be shortened when the temperature is low.
- Storage at too high or low temperatures will also result in a gradual capacity loss. As a result, the operating time of your camera may be considerably reduced.
- It is normal for the camera to become warm during operation, because the camera casing might conduct heat.



Do not hold the camera by excessive force. Plus, be sure to protect the camera from strong impacts.

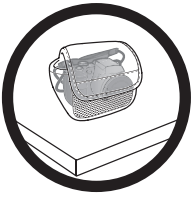
To avoid accidental falling, please attach the neck strap to the camera and always put the camera around your neck.



If the batteries suddenly depleted and caused the lens fail to retract, please carefully protect the lens to avoid collision and insert batteries with full power ASAP..

When the camera is not in use, always turn the power off. Plus, before storing the camera in its case, make sure the lens has retracted successfully and you put the lens cover back. If you do not intend to use the camera for a long time, please remove the batteries from the camera and store the batteries carefully.

Keep your camera away from sharp objects and avoid collision.



When the camera is not in use, please place it in the pouch and a steady place. Plus, always keep your camera away from pressure to avoid possible damage.

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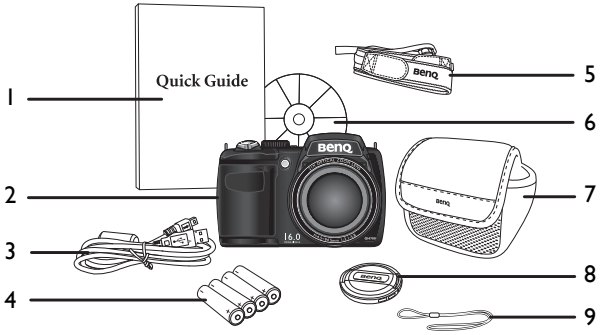
English

# Touring the camera

## Checking the package contents

Carefully unpack your kit box and ensure that you have the following items.

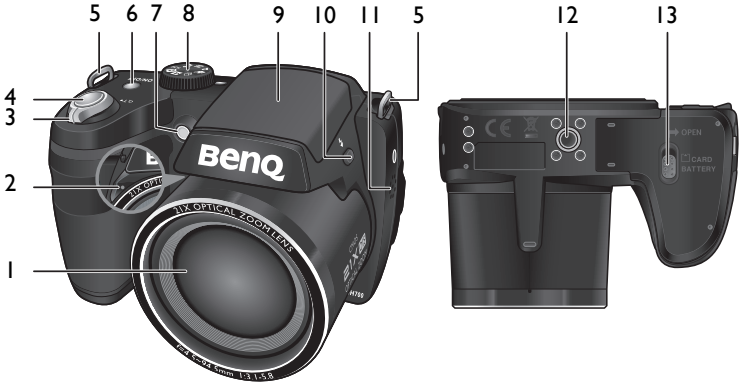



1. Quick Guide
2. Digital camera
3. USB cable
4. AA battery x 4
5. Neck strap
6. Software & User Manual CD
7. Pouch (optional)
8. Lens cover
9. Lens strap

- All pictures, screen captures, and icons used in this manual are for illustration only. Actual and available products, accessories, as well as their appearance may vary depending on sales region.
- If any items are missing or damaged, contact your dealer.
- Save the packaging for future shipment or storage.

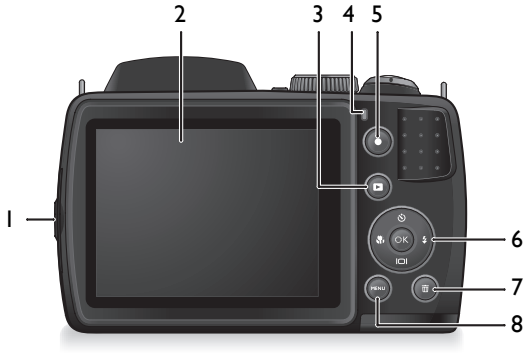
# Camera

## Front and bottom views




1. Lens
2. Stereo microphone
3. Zoom lever
4. Shutter button
5. Strap eyelet
6. Power button
7. AF Assist Lamp / Self-timer LED indicator
8. Mode dial
9. Flash
10. Flash button
11. Speaker
12. Tripod mount
13. Battery/card cover

## Rear view




1. USB / AV / HDMI port
2. LCD display
3. PLAYBACK button
4. Status LED
5. RECORD button
6. Multifunctional buttons (including a 4-way control and an **OK** button)
7. Delete button
8. MENU button MENU

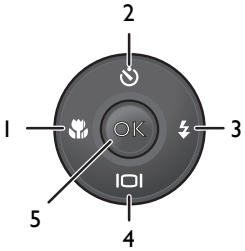
### LED Indicator

| Indicator | State | Description |
|---|---|---|
| Status LED | No light | The digital camera is off. |
| | Solid green | • The digital camera is ready to capture images.<br>• The digital camera is powering on, or is in the power-saving mode. |
| Status LED | Blinking green | • The digital camera cannot focus.<br>• The digital camera is capturing a video clip.<br>• The flash is charging, or the USB communication/transfer is in progress. |
| Self-timer LED | Blinking red | The self-timer function is activated. |

- It is normal for the camera to become warm during operation, because the camera casing might conduct heat.
- The LCD display on this camera is manufactured with sophisticated technology, and more than 99.99% of the pixels on the LCD display meet standard specifications. Yet, it is possible that less than 0.01% of the pixels on the LCD display may have some light spots or show unusual colors. This is normal and does not indicate display malfunction, nor will this affect the pictures you take with the camera.
- The LCD monitor looks darker in strong sunlight or bright light. This is not a malfunction.
- To prevent your images from being blurred while pressing the Shutter button, always hold the camera steady. This is especially important when you are shooting under low lighting conditions, under which your camera may reduce the shutter speed to ensure your images are properly exposed.

## Multifunctional buttons

You can choose camera settings by pressing the 4-way control or **OK**.




1. **Left/Focus**:
   - Scrolls left in menus.
   - Toggles between different focus modes.
2. **Up/Self-timer**:
   - Scrolls up in menus.
   - Selects a self-timer mode. See "Using the Self-timer" on page 26 for details.
   - Rotates an image. See "Rotating an image" on page 50 for details.
3. **Right/Flash**:
   - Scrolls right in menus.
   - Selects a flash mode.
4. **Down/Display**:
   - Scrolls down in menus.
   - Toggles between different display modes.
5. **OK**: Confirms a chosen setting.

English

# Preparing the camera for use

This section will guide you on how to prepare the camera before its initial use.

## Attaching the strap

To attach the lens and neck straps to your camera, do the following:

1. Insert one end of the neck strap through the strap eyelet.

2. Route it through the buckle as the inner loop.

3. Route the other end of the neck strap to the other strap buckle to secure it.
   Follow the above steps to attach the other side of the neck strap.

4. Insert one end of the lens strap through the strap eyelet. Make a loop to secure it.

5. Attach the other end of the lens strap on the lens cover.

6. Once complete, make sure the straps are tight.

- Wrapping the strap around your neck is dangerous. Refrain children from playing with the strap.
- Remove the lens cover before using the camera.

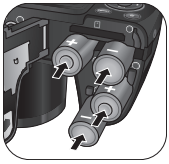
## Installing the batteries

Use only the specified batteries for the camera, and always turn off the camera before removing the batteries.

To install the batteries:

1. Push the button up and then slide the battery/card cover to the right to release and open it.

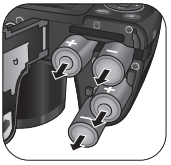
2. Insert the batteries in the correct direction by matching the + - label on the battery slot.



3. Close the battery/card cover and then slide it to the left to lock it in place.

To remove the batteries:

1. Push the button up and then slide the battery/card cover to the right to release and open it.
2. Remove the batteries.
3. Close the battery/card cover and then slide it to the left to lock it in place.



- Turn off the camera before removing the batteries.
- Use only the specified battery type. Using other types of batteries may damage the camera and invalidate the warranty.
- Ensure that the batteries are inserted into the product with correct polarity. Incorrect polarity may damage the camera or cause fire.
- Download all pictures and remove the batteries from the camera if you are going to store the camera for a long time.
- The batteries may be warm after being used. This is normal and not a malfunction.
- When using the camera in a cold environment, keep the camera and its batteries warm by holding it inside your jacket or another warm protective environment.
- Please select the correct battery type before use (see "Battery Type" on page 47 for details).
- High-capacity (such as 2500 mAh) rechargeable batteries are recommended.
- Carbon-zinc batteries are not recommended.
- The AA batteries that came with the camera are not rechargeable.
- Do not combine old and new batteries or batteries of different makes or types.
- Performance of alkaline batteries may vary greatly depending on the manufacturer. Choose a reliable brand.

# Installing an SD card

The camera comes with internal memory for storing captured images, video clips, or audio files. You can also add an SD card to store more files.

To install an SD card:

1. Push the button up and then slide the battery/card cover to the right to release and open it.

2. Insert an SD card in the correct direction.

3. Close the battery/card cover and then slide it to the left to lock it in place.

To remove an SD card:

1. Push the button up and then slide the battery/card cover to the right to release and open it.
2. Lightly press the edge of the memory card to eject.
3. Close the battery/card cover and then slide it to the left to lock it in place.

Before initial use of an SD card, please format the card first by pressing **MENU** > ◂ 🔧 ▸ > **Format** > **OK** / ↯ > **Yes** > **OK**.

# Turning the Power On and Off

Before turning on the camera, be sure to remove the lens cover. Otherwise, the lens will not be extended and the camera will beep four times.

There are two ways to turn on the camera:

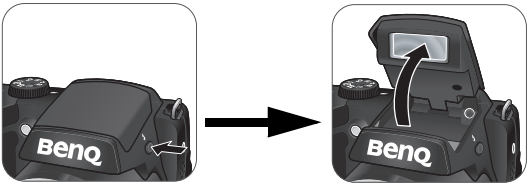
- Press the **Power** button.
  The zoom lens extends and the camera is turned on in **Record** mode.
- Press and hold ▶.
  The camera is turned on in **Playback** mode, and the lens is not extended.

# Opening the Flash

You need to manually open the flash before switching the flash mode.

To open the flash:

Press the **Flash** button to open it.




Do not use your hands to forcibly lift open the flash.

To close the flash:

Push down the flash to close it.

When the flash is closed, flash mode is automatically set to flash off.

# Initial setting

You will be prompted to set up the language and the date and time when the camera is turned on for the first time.

## Setting language

Selects the language version shown on the screen.

To select a language:

1. Press **MENU** > ‹ 🔧 ›. (Step 1 is needed only after the initial setting is complete.)
2. Press ⏱ or ▭ to locate **Language**, and then press **OK** or ϟ.
3. Press ❀, ϟ, ⏱, or ▭ to locate the language you want.
4. Press **OK** to set the language.

## Setting date and time

When using the camera for the first time or when the battery has been removed from the camera for a long time, you need to set the date and time. The date and time is recorded when a video or image is captured.

To set date and time:

1. Press **MENU** > ‹ 🔧 ›. (Step 1 is needed only after the initial setting is complete.)
2. Press ⏱ or ▭ to locate **Date & Time**, and then press **OK** or ϟ.
3. Press ⏱ or ▭ to select date, time and date format. Press ❀ or ϟ to move to another column as needed.
4. Press **OK** to set the date and time.

English

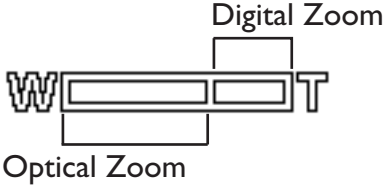
# Operating the camera

The procedure below is a general guideline for basic operation. It is particularly useful if you are new to the camera.

1. Press the **Power** button to turn the power on.
   Be sure that you have removed the lens cover before turning on the camera.
2. Set the mode dial to **P** or other desired shooting mode. See "Selecting the Shooting Mode" on page 28 for details.

Remember to follow the on-screen display or slide the Zoom lever to Q T for instructions (wherever available). Next, press the corresponding buttons to access and set more options. At any time, you can cancel the current operation by pressing MENU to return to your previous step.

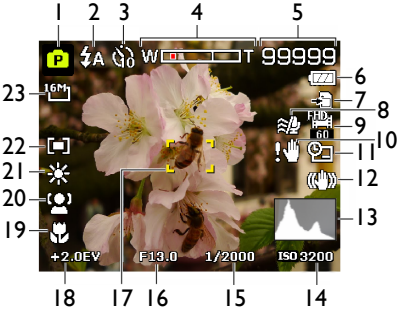
3. If you need to use the flash for shooting, open the flash.
4. Use the **Zoom** lever to zoom-in/zoom-out on the subject.
5. Press the **Shutter** button halfway to set automatic focus.
   • Once the focus is set, the focus frame color will turn from yellow (unfocused) to green (focused). If the focus frame color is red and you press the **Shutter** button down, it might result in a blurred photo.
6. Press the **Shutter** button down fully to capture the image.
7. To switch to **Movie** mode, press ●. The video recording automatically starts.
   • While recording, use the **Zoom** lever to zoom-in/zoom-out on the subject. Press ● again to stop video recording.
8. To switch to **Playback** mode, press ▶. In **Playback** mode, you can view captured images or recorded videos.
   • You can press ❀ or ϟ to view other images/videos, slide the **Zoom** lever to Q T to zoom-in on a captured image, or slide the **Zoom** lever to W▪ side to view 9-thumbnail images on the screen.



- During zoom-in/out, there is a separator in the zoom bar between T and W. For best image quality, it is recommended to use optical zoom only by keeping the magnification within W and the separator.
- Flash is automatically turned off in the Movie mode.
- In Movie mode, the camera records both sound and video. The recording time is continuous, but recording will stop once the memory card space is full.
- At any time, you can press the Power button to turn off the camera.
- In Capture or Playback mode, press DISP to select what information to show on the screen.

English

# Capture mode




| Item | Description | Page reference |
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| 3 | Self-timer mode | 26 |
| 4 | Zoom status | -- |
| 5 | Number of shots available | -- |
| 6 | Battery status | 45 |
| 7 | Storage media | -- |
| 8 | Wind Cut | 44 |
| 9 | Movie size | 44 |
| 10 | Camera shake warning | -- |
| 11 | Date stamp | 42 |
| 12 | Stabilizer | 43 |
| 13 | Histogram | -- |
| 14 | ISO | 40 |
| 15 | Shutter speed | -- |
| 16 | Aperture value | -- |
| 17 | AF area | 41 |

| Item | Description | Page reference |
|---|---|---|
| 18 | Exposure value (EV) | 39 |
| 19 | Focus | 27 |
| 20 | Face Tracking | 41 |
| 21 | White Balance | 39 |
| 22 | AE metering | 41 |
| 23 | Image size | 38 |

- In Capture mode, press to toggle among the 4 display modes (standard, complete, none, and rule of thirds).
- Use the rule of thirds display mode to improve your composition by placing subjects on at least one of the intersections of these 4 imaginary lines.
- While the Shutter button is pressed down halfway, the AF area color changes to green, camera shake warning (appears only if the camera itself detects possible shaking), aperture, shutter speed and ISO setting are also shown on the screen.

## Flash mode

The flash offers additional light source (usually used in a low-light environment). You can capture an image using one of the following flash modes.

| Icon | Mode | Description |
|---|---|---|
| | Auto Flash | The flash fires automatically based on the photographic conditions. |
| | Auto Anti Red-eye | Reduces the red-eye phenomenon when capturing natural-looking images of people and animals in low-light conditions. Be sure to ask the subject to look at the camera lens or get as close to the camera as possible. The flash fires automatically based on the photographic conditions. |
| | Force On | The flash always fires regardless of the surrounding lighting conditions. Select this mode when capturing images with high contrast (backlighting) and deep shadows. |

| Icon | Mode | Description |
|---|---|---|
| | Slow Sync | Fires the flash immediately at the beginning of exposure with a longer shutter speed, so balanced ambient lighting of the foreground subject and background scene can be reached in a low-light environment. |
| | Force Off | The flash does not fire. Select this mode when flash photography is prohibited, or when the distance to the subject is beyond the effective range of the flash. |

To select a flash mode:

1. Set the mode dial to the desired shooting mode. See "Selecting the Shooting Mode" on page 28 for details.
2. Open the flash. See "Opening the Flash" on page 20 for details.
3. Press repeatedly until your desired flash mode is displayed on the LCD monitor.

- The flash mode is not available in Continuous Shooting, HDR, and Handheld Night Shot modes.
- The flash mode will remain at "Flash Off" if the flash does not open.
- When the flash is closed, flash mode is automatically set to flash off.

## Using the Self-timer

This feature allows you to set the self-timer settings.

| Icon | Mode | Description |
|---|---|---|
| | 10-sec./2-sec. self-timer | Automatically takes a picture after 2 or 10-second delay. This mode is useful when you want to be part of the picture. |
| | Double | Performs delay and capture twice:<br>Performs a 10-second delay, then captures the image.<br>Performs another 2-second delay then captures the image again. |
| -- | Off (Single) | Takes one picture at a time. |

To enable self-timer mode:

1. Set the mode dial to the desired shooting mode. See "Selecting the Shooting Mode" on page 28 for details.
2. Press repeatedly until your desired self-timer mode is displayed on the LCD monitor.

## Focus mode

This feature allows you to define the focus type when capturing an image or a recording a video clip.

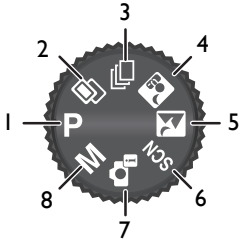
To select the focus mode:

1. Set the mode dial to the desired shooting mode. See "Selecting the Shooting Mode" on page 28 for details.
2. Press repeatedly to toggle between **Normal** and **Macro** ( ). In addition, you can use **Super Macro** ( ) if the subject is at a very close distance. To enable , press . Then, steadily slide the zoom lever until the zoom indicator is roughly in the middle of the zoom bar.

If you want to take a close-up shot, set the focus mode to Macro or Super Macro.

# Selecting the Shooting Mode

Rotate the mode dial to select one of the eight shooting modes:



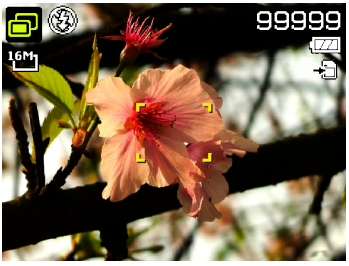

| No. | Icon | Mode | Description |
|---|---|---|---|
| 1 | P | Program | The camera automatically configures the appropriate settings, so you can capture images with ease. |
| 2 | | HDR | The camera automatically increases the dynamic range on necessary portion of the image and enhances the details of dark areas. See "Using HDR mode" on page 29 for details. |
| 3 | | Continuous Shooting | Lets you capture a series of shots with a single press of the **Shutter** button. See "Using Handheld Night Shot mode" on page 33 for details. |
| 4 | | Night Portrait | Lets you capture night scenes and portraits clearly. See "Using Continuous Shooting mode" on page 29 for details. |
| 5 | | Handheld Night Shot | Lets you capture photos in a low-light environment, such as in the evening or at night. See "Using Handheld Night Shot mode" on page 33 for details. |
| 6 | SCN | Scene Mode | Lets you select the desired scene mode that suits your shooting environment. See "Setting the Scene mode" on page 33 for details. |
| 7 | | Intelligent Scene | The camera detects the shooting condition and automatically switches to the appropriate scene mode. See "Using Intelligent Scene mode" on page 36 for details. |

| No. | Icon | Mode | Description |
|---|---|---|---|
| 8 | M | Manual | Lets you set both aperture and shutter speed manually. See "Setting the Scene mode" on page 33 for details. |

## Using HDR mode

In this mode, the camera automatically enhances the shadow and highlights the details of an image.

1. Set the mode dial to .
2. Press the **Shutter** button halfway to set automatic focus.
3. Press the **Shutter** button to capture an image.




Before

After

The flash mode is automatically set to flash off.

## Using Continuous Shooting mode

In this mode, you can take consecutive shots.

| Icon | Mode | Description |
|---|---|---|
| | High-speed Burst | Press and hold the **Shutter** button to take continuous shots at 10fps (the maximum number of photos is 10). |
| | Pre-shooting | The images are captured before fully pressing the **Shutter** button. This feature begins by half pressing the **Shutter** button, and continues when the **Shutter** button is fully pressed. |

| Icon | Mode | Description |
|---|---|---|
| | Sporty Burst 120 | Use this feature to capture 54 photos with at least 1/120 shutter speed with a press of the **Shutter** button. |
| | Sporty Burst 240 | Use this feature to capture 54 photos with at least 1/240 shutter speed with a press of the **Shutter** button. |
| | Smart Selector | Press and hold the **Shutter** button to take several shots of an image. When the **Shutter** button is released, ONLY the sharpest photo is saved and the others are erased automatically. |
| | Multi-shot 16 | Press the **Shutter** button to take 16 shots at 30 fps and combines them as a single photo. |

To select a continuous mode:

1. Set the mode dial to .
2. To switch to another mode, press **MENU**.
3. Press to select **Continuous Shooting**.
4. Press **OK** or , and then select a desired option.
5. Press **OK** > **MENU** to confirm the setting and exit the menu mode.

## High-speed Burst

Captures a maximum of 10 photos continuously with a single press of the **Shutter** button.

1. Set the mode dial to .
2. Press **MENU** > to select **Continuous Shooting**.
3. Press **OK** or , and then select **High-speed Burst**.
4. Press **OK** > **MENU** to exit the menu mode.

5. Press and hold the **Shutter** button to capture continuous shots. Shooting ends when the **Shutter** button is released or the maximum number of photos is reached.

Auto review appears directly on the screen after every shot is taken, even if [Auto Review] is set to off.

## Pre-shooting

Captures continuous shots while the **Shutter** button is pressed halfway.

1. Set the mode dial to .
2. Press **MENU** > to select **Continuous Shooting**.
3. Press **OK** or , and then select **Pre-shooting**.
4. Press **OK** > **MENU** to exit the menu mode.
5. Press the **Shutter** button halfway to start capturing continuous shots, and continues when the **Shutter** button is fully pressed.
   The camera captures up to 5 photos in a series (including up to 2 photos captured in pre-shooting cache).

Auto review appears directly on the screen after every shot is taken, even if [Auto Review] is set to off.

## Sporty Burst 120 / Sporty Burst 240

Use both of these two features to capture 54 photos in 1M with at least 1/120 shutter speed (1/240 shutter speed for Sporty Burst 240) per shot.

1. Set the mode dial to .
2. Press **MENU** > to select **Continuous Shooting**.
3. Press **OK** or , and then select **Sporty Burst 120** or **Sporty Burst 240**.
4. Press **OK** > **MENU** to exit the menu mode.
5. Press the **Shutter** button to capture continuous shots. Shooting ends when the camera reaches the maximum number of photos.

## Smart Selector

Captures a maximum of 5 photos continuously with a single press of the **Shutter** button. The camera ONLY saves the sharpest photo of the series.

1. Set the mode dial to .
2. Press **MENU** > to select **Continuous Shooting**.

3. Press **OK** or ⚡, and then select **Smart Selector**.
4. Press **OK** > **MENU** to exit the menu mode.
5. Press and hold the **Shutter** button to capture continuous shots. Shooting ends when the **Shutter** button is released or reaches the maximum number of photos.
6. The camera only saves the sharpest photo, and the others are erased automatically.

Auto review appears directly on the screen after every shot is taken, even if [Auto Review] is set to off.

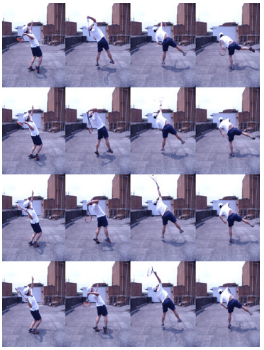
## Multi-shot 16

Captures 16 shots at 30 fps and combines them on a single picture.

1. Set the mode dial to 🖵.
2. Press **MENU** > |▭|, and select **Continuous Shooting**.
3. Press **OK** or ⚡, and then select **Multi-shot 16**.
4. Press **OK** > **MENU** to exit the menu mode.
5. Press the **Shutter** button to capture 16 shots.

   The captured images are displayed as one 16-thumbnail photo.

Before



After

- The image size is automatically set to 5M (2560 x 1920).
- Auto review appears directly on the screen after every shot is taken, even if [Auto Review] is set to off.

## Using Night Portrait mode

Shoots night scenes and portraits clearly. Please keep the camera steady or use a tripod while using this mode.

1. Set the mode dial to .

You can press **MENU** and select **Night Portrait** (by pressing **OK**) for Hand-held or Tripod option.

2. Press the **Shutter** button halfway to set automatic focus.
3. Press the **Shutter** button to capture an image.

## Using Handheld Night Shot mode

Captures photos in a low-light environment, such as in the evening or at night.

1. Set the mode dial to .

You can press **MENU** and select **Night Scene** (by pressing **OK**) for Hand-held or Tripod option.

2. Press the **Shutter** button halfway to set automatic focus.
3. Press the **Shutter** button to capture an image.

## Setting the Scene mode

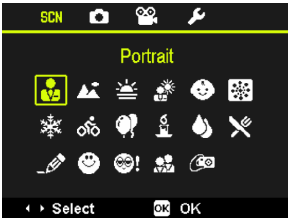
Select one of the following scene modes to fit your shooting condition.

| Icon | Mode | Description |
|---|---|---|
| | Portrait | Makes the subject (usually a person) stand out with smooth and natural-looking skin tones. |
| | Landscape | Captures a scene in the distance with the focus area set to infinity and a lower aperture value. The maximum depth of view can also be achieved. |
| | Sunset | Captures the warmth and atmosphere (represented by hue) of sunrise or sunset. |
| | Backlight | Increases exposure (by turning on the flash) when light illuminates the subject from behind. |

| Icon | Mode | Description |
|---|---|---|
| | Kids | Increases sensitivity and emphasizes children's skin tones. |
| | Fireworks | Adds exposure time to shoot firework trails. Please keep the camera steady or use a tripod while using this mode. |
| | Snow | Used under a very bright light environment such as snow scenes. |
| | Sports | Uses a high shutter speed to capture objects in motion. |
| | Party | Captures the party atmosphere usually under indoor light source. |
| | Candlelight | Makes a picture look warm, and thus captures the mood under candle light source. Flash is always off. |
| | Flowing Water | Uses a low shutter speed for motion blur. Please keep the camera steady or use a tripod while using this mode. |
| | Food | Captures food by enhancing color brightness and giving more vivid colors. |
| | Text | Improves clarity & contrast when taking a close-up picture of documents. |
| | Smile Capture | Automatically takes a shot when a smile is detected. |
| | Blink Detection | Warns of eye blinks if detected and lets you decide whether to save the image file. |
| | Love Portrait | Takes a self portrait with at least two faces in a confined area. |
| | Self Portrait | Takes a self portrait with at least one face in a confined area. |

To select a scene mode:

1. Set the mode dial to **SCN**.
2. Press **MENU** > |◯| to enter the scene menu.
3. Press ▼ or ⚡ to select the desired scene mode.
4. Press **OK** to confirm the setting.




## Smile Capture

Captures an image when the subject smiles.

1. Set the mode dial to **SCN**.
2. Press **MENU** > |◯| to enter the scene menu.
3. Press ▼ or ⚡ to select **Smile Capture**.
4. Press **OK** to confirm the setting.
5. The camera tracks the face of your subject (a white frame shows).
6. Once a smile is detected, the camera instantly takes a picture.
7. The camera continues to detect smiles and takes more pictures (Step 4 is repeated).

Face tracking (one face only) is always on in Smile Capture mode.

## Blink Detection

Automatically detects blinking when you capture an image.

1. Set the mode dial to **SCN**.
2. Press **MENU** > |◯| to enter the scene menu.
3. Press ▼ or ⚡ to select **Blink Detection**.
4. Press **OK** to confirm the setting.
5. Press the **Shutter** button to capture an image. If blinking is detected, a warning message appears on the screen.
6. Press ⏲ or |◯| to save or discard the image, and then press **OK** to confirm.

## Love Portrait

Takes a self portrait of at least two faces.

1. Set the mode dial to **SCN**.
2. Press **MENU** > |◯| to enter the scene menu.
3. Press ✿ or ϟ to select **Love Portrait**.
4. Press **OK** to confirm the setting.
5. Once faces are detected, the camera will automatically take a picture after a two-second countdown.

During the countdown, you can press the shutter to cancel the countdown. The camera will then start detecting faces again.

6. The camera continues to detect faces and takes more pictures by repeating Step 5. Face tracking will automatically stop if no faces are detected.

## Using Intelligent Scene mode

Automatically selects the best scene mode from Portrait, Landscape, Macro, Backlight, Backlight Portrait, Night Scene, and Night Portrait.

1. Set the mode dial to 📷.
2. Press the **Shutter** button halfway to set automatic focus. The selected shooting mode is displayed in the top left corner of the screen.
3. Press the **Shutter** button to capture an image.
4. The camera only saves the sharpest photo, and the others are erased automatically.

Auto review appears directly on the screen after every shot is taken, even if [Auto Review] is set to off.

## Using Manual mode

You can choose the aperture value and shutter speed in Manual mode.

To adjust values in Manual mode:

1. Set the mode dial to **M**.
2. Press **OK**.
3. Adjust the settings.
   - Press ⏲ or |◯| to adjust the aperture value.

- Press or to adjust the shutter speed.

4. Press **OK** to confirm setting.

## Recording Videos

You can record video with this camera. Set the movie settings before you start recording a video. See "Using the Movie Menu" on page 43 for details.
To record the video clip:

1. Press ● to start recording.
2. Use the **Zoom** lever to zoom in/out on the subject.
3. Press ● to stop the recording.

- The camera will automatically stop recording when the memory capacity is full.
- Recording a video at Full HD and HD mode requires a Class 4 or above SDHC card.
- Digital zoom is not available while recording a video.

### Using PIV function

During video recording, you can capture an image by pressing the **Shutter** button when icon appears on the screen. This feature is only applicable to videos with size of 1080p (30fps), 720p (30fps), or VGA (30fps).

- When the movie size is1080p (30fps) or 720p (30fps), the capture photos are saved at 2304 x 1296 resolution.
- When the movie size is VGA (30fps), the capture photos are saved at 2304 x 1728 resolution.

# Using the Capture Menu

Press **MENU** to access more capture options. Depending on your settings, the displayed option icons in the Capture menu may vary.

1. Press **MENU** > ◂ 📷 ▸.
2. Press ⏲ or ▭ to select a menu item.
3. Press **OK** or ϟ to enter the submenu.
4. Press ⏲ or ▭ to select the settings.
5. Press **OK** > **MENU** to save the setting and exit the menu mode.

## Photo size

| Icon | Description | Icon | Description |
|---|---|---|---|
| 16M★ | 16 megapixels (4608 x 3456) | 5M | 5 megapixels (2592 x 1944) |
| 16M | 16 megapixels (4608 x 3456) | 3M | 3 megapixels (2048 x 1536) |
| 3:2 | 3:2 (14 megapixels; 4608 x 3072) | 16:9 | HD 16:9<br>(1920 x 1080 in full HD format) |
| 8M | 8 megapixels (3264 x 2448) | VGA | VGA (640 x 480) |

To select an image size:

1. Press **MENU** > ◂ 📷 ▸ > **Photo Size**.
2. Press **OK** or ϟ to enter the submenu.
3. Press ⏲ or ▭ to select a setting.
4. Press **OK** to confirm setting.

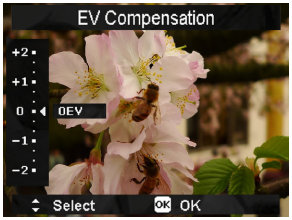
The 16M★ and 16M have different compression rate.

## Setting EV

EV (Exposure Value) lightens or darkens the entire image. Adjust EV when the brightness between the subject and the background is not balanced, or when the subject occupies only a small part of the picture.

To select an EV:

1. Press **MENU** > ◂ 📷 ▸ > **EV Compensation**.
2. Press **OK** or ⚡ to enter the submenu.
3. Press ⏱ or ▭ to adjust the setting.
4. Press **OK** to confirm setting.




## White Balance

Compensates for color temperatures in different lighting conditions, so white and other colors can display properly when you capture images.

| Icon | Mode | Description |
|---|---|---|
| AWB | Auto | Adjusts white balance automatically. |
| ☀ | Daylight | Used in bright daylight conditions. |
| ☁ | Cloudy | Used in twilight or shady conditions. |
| 🕯 | Tungsten | Used when subjects lit by tungsten (incandescent) lighting. |
| 1<br>2 | Fluorescent_1<br>Fluorescent_2 | Adjusts for fluorescent lighting. Corrects the green hue of fluorescent lighting. Ideal for indoor photos under fluorescent lighting without a flash. |
| | Manual | Used when you want to manually adjust white balance in a particular lighting condition. |

To select White Balance:

1. Press **MENU** > ◂ 📷 ▸ > **White Balance**.
2. Press **OK** or ⚡ to enter the submenu.

3. Press ⏲ or ▭ to select a white balance option. The preview result based on the currently selected white balance is shown on the screen. (When selecting the **Manual** mode, you must first point the camera at a blank sheet of white paper or something similar and press the **Shutter** button for the camera to detect proper colors.)
4. Press **OK** to confirm setting.

## ISO

ISO configures the camera sensitivity to light. The higher the ISO value, the brighter picture you can take in a low-light environment. Yet, you may see more noise in the picture as you increase the ISO value.

| Icon | Description |
|---|---|
| ISO Auto | Automatically sets the ISO value. |
| ISO 160 ISO 200 | Equivalent to color ISO 160/200 film. Used for outdoor photography in bright sunlight. |
| ISO 400 ISO 800 ISO 1600 ISO 3200 ISO 6400 | Equivalent to color ISO 400/800/1600/3200/6400 film. Use it in a low-light environment or where the flash light is not allowed.<br>• ISO 6400/3200 for resolution of 3M/16:9/VGA under only |

To select an ISO value:

1. Press **MENU** > ◂ 📷 ▸ > **ISO**.
2. Press **OK** or ⚡ to enter the submenu.
3. Press ⏲ or ▭ to select an ISO Value.
4. Press **OK** to confirm setting.

## Metering

| Icon | Mode | Description |
|---|---|---|
| [▪] | Multi | Detects the exposure based on multiple points in the subject area. |
| [◉] | Center | Detects the exposure of the entire shooting screen, but gives more importance to the values near the center. |
| [•] | Spot | Detects the exposure based on the center spot in the subject area. |

To select a metering option:

1. Press **MENU** > ◂ 📷 ▸ > **Metering**.
2. Press **OK** or ⚡ to enter the submenu.
3. Press ⏱ or ▭ to select a metering option.
4. Press **OK** to confirm setting.

## AF Area

This feature determines the area on which the camera focuses.

| Icon | Mode | Description |
|---|---|---|
| | Face Priority | Automatically detect faces and track faces continuously. |
| | Wide | Automatically select the focus area within the wide frame. |
| | Center | The focus are is fixed on the center. |

To set the AF Area:

1. Press **MENU** > ◂ 📷 ▸ > **AF Area**.
2. Press **OK** or ⚡ to enter the submenu.
3. Press ⏱ or ▭ to an AF area option.
4. Press **OK** to confirm setting.

## AF Lamp

This feature allows you to add extra light when the lighting is insufficient while capturing images.

To enable the AF Lamp:

1. Press **MENU** > ◂ 📷 ▸ > **AF Lamp**.
2. Press **OK** or ϟ to enter the submenu.
3. Press ⏲ or |▭| to select **Auto**.
4. Press **OK** to confirm setting.

## Digital Zoom

The digital zoom enlarges or shrinks the image using a software process.

To enable the digital zoom:

1. Press **MENU** > ◂ 📷 ▸ > **Digital Zoom**.
2. Press **OK** or ϟ to enter the submenu.
3. Press ⏲ or |▭| to select **On**.
4. Press **OK** to confirm setting.

## Date Stamp

Imprints the date when a picture was taken on the picture itself.

To set the date stamp:

1. Press **MENU** > ◂ 📷 ▸ > **Date Stamp**.
2. Press **OK** or ϟ to enter the submenu.
3. Press ⏲ or |▭| to select **Date**, **Date & Time**, or **Off**.
4. Press **OK** to confirm setting.

## Auto Review

This feature displays a preview of the still image for 1 second right after capturing it.

To set the Auto Review:

1. Press **MENU** > ◂ 📷 ▸ > **Auto Review**.
2. Press **OK** or ϟ to enter the submenu.
3. Press ⏲ or |▭| to select **On** or **Off**.

4. Press **OK** to confirm setting.

During auto review, half press the Shutter button to return to the capture mode.

### Stabilizer

Reduces blur caused by camera vibration, and thus improves image quality and clearness.

To set the Stabilizer:

1. Press **MENU** > ◂ 📷 ▸ > **Stabilizer**.
2. Press **OK** or ⚡ to enter the submenu.
3. Press ⏱ or ▭ to select **On** or **Off**.
4. Press **OK** to confirm setting.

When the battery power is low, the Stabilizer will be turned off automatically.

## Using the Movie Menu

Press **MENU** to access Movie menu options. Set the necessary settings before you start recording the video clip.

1. Press **MENU** > ◂ 🎥 ▸.
2. Press ⏱ or ▭ to select a menu item.
3. Press **OK** or ⚡ to enter the submenu.
4. Press ⏱ or ▭ to select the settings.
5. Press **OK** > **MENU** to save the setting and exit the menu mode.

## Movie Mode

| Icon | Description | Icon | Description |
|---|---|---|---|
| | Full HD 1080p (60 fps) | | VGAp (30 fps) |
| | Full HD 1080p (30 fps) | | QVGAp (120 fps) |
| | HD 720p (60 fps) | | QVGAp (240 fps) |
| | HD 720p (30 fps) | -- | -- |

To select a movie size:

1. Press **MENU** > ◂  ▸ > **Movie Mode**.
2. Press **OK** or ▾ to enter the submenu.
3. Press ⏲ or ▭ to select a setting.
4. Press **OK** to confirm setting.

The Full HD and HD options are only available when an SDHC Class 4 or Class 6 card is inserted into the camera.

## AF Mode

Use this feature to control the auto focus method in recording videos.

To set the AF mode:

1. Press **MENU** > ◂ ▸ > **AF Mode**.
2. Press **OK** or ▾ to enter the submenu.
3. Press ⏲ or ▭ to select **Single AF** or **Full-time AP**.
4. Press **OK** to confirm setting.

## Wind Cut

Use this feature to reduce wind noise during video recording.

To enable Wind Cut:

1. Press **MENU** > ◂ ▸ > **Wind Cut**.
2. Press **OK** or ▾ to enter the submenu.

3. Press ⏲ or ▭ to select **On**.
4. Press **OK** to confirm setting.

## Battery status

| Icon | Description |
|---|---|
| | Battery power is full. |
| | Battery power remains adequate. |
| | Battery power is low. |
| | Battery power is very low. You should replace the battery ASAP. |

# Other settings

Press **MENU** > ‹ 🔧 ›, and then select an option.

| Icon | Mode | Description |
|---|---|---|
| Sounds | [Startup] | Set a type of the startup sound. |
| | [Shutter] | Set the shutter sound on and off. |
| | [Beep Volume] | Adjust the volume. |
| Power Save | 1min [1 min.] | For power conservation, the camera automatically enters the standby mode after it has been idle for a period of time. (Press any key to resume.) |
| | 3min [3 min.] | |
| | 5min [5 min.] | |
| | OFF [Off] | The camera remains on when idle. |
| Date & Time | Set the date and time. | |
| Language | Select a language for display menus and other information. | |

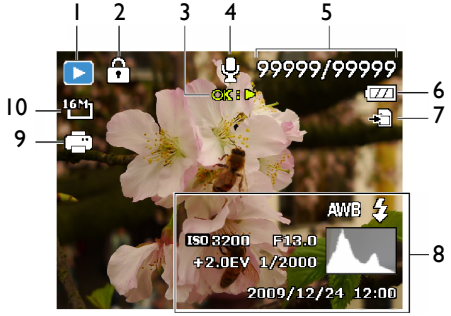
| Icon | Mode | Description |
|---|---|---|
| TV Settings | TV Out | Switch the video output according to different regional standards. Available settings: NTSC (for America, Japan, Taiwan, and others) and PAL (for China, Europe, Oceania, and others). |
| | HDMI | Set an image resolution for HDMI output. The available settings vary depending on the TV Out setting.<br>• If the TV Out is set to NTSC, the available HDMI settings: Auto / 480p / 720p / 1080i / 1080p.<br>• If the TV Out is set to PAL, the available HDMI settings: Auto / 576p / 720p / 1080i / 1080p. |
| | TV Out should be set to either NTSC or PAL depending on your region. For details about which system should be used, check with your local authorities. | |
| LCD Brightness | [Auto] | The LCD brightness is automatically set based on the surrounding environment. |
| | [Bright] | The LCD brightness is increased. |
| | [Normal] | The LCD brightness remains at the default value. |
| Startup Image | [On] | Activate the system startup image when you turn on the camera. |
| | [Off] | Disable the startup image function. |
| Format | Formats the internal memory or the memory card. | |

| Icon | Mode | Description |
|---|---|---|
| Battery Type | [Alkaline] | Select if the type of battery used in the camera is Alkaline. |
| | [Ni-MH] | Select if the type of battery used in the camera is Ni-MH. |
| | [Lithium] | Select if the type of battery used in the camera is Lithium. |
| Reset All | Resets the entire menu and button operation settings to initial default.<br>The following settings do not change after Reset All:<br>• Date & Time setting<br>• Language setting<br>• TV Out setting<br>• Manual White Balance setting | |

English

# Playback mode

Press ▶ to switch to **Playback** mode.




If the camera is turned off, you can directly switch to Playback mode by pressing and holding ▶.

| Item | Description | Page reference |
|---|---|---|
| 1 | Indicates that the camera is in **Playback** mode. | -- |
| 2 | Indicates that the file is protected and cannot be deleted. | 53 |
| 3 | Indicates key guide. Press the button to play the recorded video. | -- |
| 4 | Indicates this file has a voice memo or the file is an audio file. | 55 |
| 5 | File number | -- |
| 6 | Battery status | 45 |
| 7 | Storage media | -- |
| 8 | Displays the recording information of the file. Press ⏽ to toggle between different displayed information. | -- |
| 9 | Indicates the file is marked for printing. | 56 |
| 10 | Image size | -- |

# Options for playback and editing

When the camera is in **Playback** mode, press ▼ or ▲ to view the next/ previous recorded files. You can also select any of the following options.

## Enlarging an image

Magnifies an image, so more details can be seen.

To enlarge an image:

1. Press ▶ to switch to **Playback** mode.
2. Press ▼ or ▲ to select the image you want to enlarge.
3. Slide the **Zoom** lever to Q T to zoom-in on a captured image.
   In Zoom mode, use the **Zoom** lever to adjust the zoom ratio.
4. Press ◄, ►, ▼, or ▲ to move to the area you want to view.

## Trimming

Crops part of an image file and saves it as another new file.

To trim an image:

1. Press ▶ to switch to **Playback** mode.
2. Press ▼ or ▲ to select the image you want to enlarge.
3. Slide the **Zoom** lever to Q T to zoom-in on a captured image.
   In Zoom mode, use the **Zoom** lever to adjust the zoom ratio.
4. Press ◄, ►, ▼, or ▲ to locate the area you want to trim.
5. Press **MENU** to trim the enlarged view.
6. Press ◄ or ► to select **Yes** and press **OK** to confirm and save the image file.

The trimmed photos cannot be trimmed again.

## Rotating an image

You can press to change the orientation of an image at 90 degrees clockwise at a time.

This function does not actually change the image, it just add a flag on orientation tag of the EXIF data and save it after each rotation.

## Viewing multiple files at a time

Shows up to 9 files at a time on the screen.

To view multiple files:

1. Press to switch to **Playback** mode.
2. Slide the **Zoom** lever to W. In this mode, maximum 9 files (shown in thumbnails) are displayed on the screen. Press , , , or to select a file, and then press **OK** to view it in its normal viewing size.

If there are more than 9 thumbnails, a scroll bar appears on the screen.

## Playing back video clips

View recorded video clips in the playback mode.

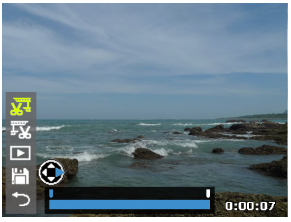
To view a video clip:

1. Press to switch to **Playback** mode.
2. Press or to select the video clip you want to view.
3. Press **OK** to start playing the video clip.
   - Press to stop the video clip, or press to pause it. Press again to resume.

- During video playback, press to fast forward or press to rewind.
- While pausing video playback, you can view the video frame by frame. Press to fast forward one frame, or press to rewind one frame. Press and hold to fast forward frame by frame continuously, or press and hold to rewind frame by frame continuously.

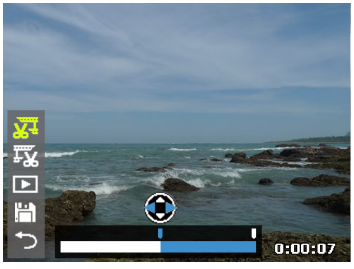
## Using Movie Edit

When a video clip is paused, press to enter Movie Edit mode. An edit panel appears on the left side of the screen.

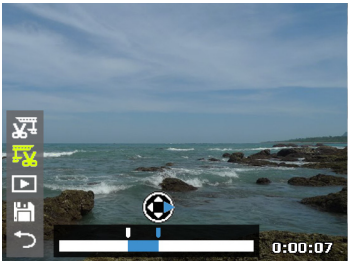



To edit the movie, do the following:

1. Press or to select:
   - to set the start point to trim the beginning of the movie.
   - to set the end point to trim the end of the movie.
2. Press or to set the movie time interval. The movie length must be at least more than 2 seconds.




Start Point




End Point

3. To preview the video, press or to select and press **OK**.
4. To save the edited video, press or to select and press **OK**. Select **Save** and press **OK** to save the file.
5. To exit Movie Edit mode, press or to select and press **OK**. It returns to the video paused display screen.

The edited video clip will be saved as a separate file and it cannot be edited again.

## Adjusting the playback volume

Increase or decrease the volume of video clips, audio clips, or voice memos.

To adjust the playback volume:

1. Press ▶ to switch to **Playback** mode.
2. Press ▼ or ⚡ to select a video clip, audio clip, or voice memo that you want to play.
3. Start the file playback and adjust the volume.
   - To increase the volume, slide the **Zoom** lever to Q T.
   - To decrease the volume, slide the **Zoom** lever to W ▦.

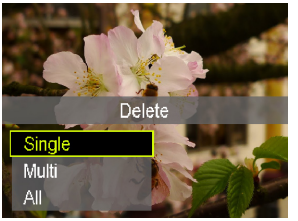
The volume can only be set during playback, but not during rewind, fast forward, or pause.

## Deleting files

Deletes selected or all files.

To delete a single file:

1. Press ▶ to switch to **Playback** mode.
2. Press ▼ or ⚡ to select the file that you want to delete.
3. Press 🗑.
4. Press ◎ or |▭| to select **Single** and press **OK**.
5. A confirmation message appears on the screen. Press ◎ or |▭| to select **Yes** and press **OK** to confirm file deletion.
6. Repeat steps 2~5 to delete other files.




In Capture mode, press 🗑 to delete that last recorded file.

To delete multiple files:

1. Press ▶ to switch to **Playback** mode.
2. Press 🗑.
3. Press ◎ or |▭| to select **Multi** and press **OK**.
   The images are displayed in thumbnail view.

4. Press ▲ or ▼ to select the files that you want to delete and press ◄ or ► to mark the file for deletion. A 🗑 icon appears on the marked files.
5. Press **OK**. A confirmation message appears on the screen. Press ◄ or ► to select **Yes** and press **OK** to confirm deletion.

To delete all files:

1. Press ▶ to switch to **Playback** mode.
2. Press 🗑.
3. Press ◄ or ► to select **All** and press **OK**.
4. A confirmation message appears on the screen. Press ◄ or ► to select **Yes** to confirm deletion.

## Slideshow

Sets the time interval for presenting a series of captured image and video files (first frame only).

To play a slideshow:

1. Press ▶ to switch to **Playback** mode.
2. Press **MENU** > ◄ ▶ ► > **Slide Show**.
3. Press **OK** or ▼ to enter the submenu.
4. Change the slideshow settings.
   - Press ◄ or ► to select **Interval,** and press ▲ or ▼ to set the transition interval between 1/3/5/10 seconds.
   - Press ◄ or ► to select **Repeat,** and press ▲ or ▼ to select whether you want to repeat the slideshow.
5. Press ◄ or ► to select **Start** and press **OK** to play the slideshow.

If you want to pause it at any time, press **OK**. Press **OK** again to resume playback. To stop the slideshow, press **MENU**.

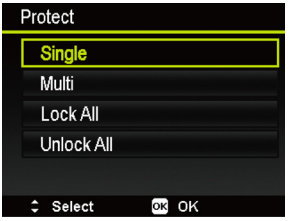
## Protecting files

Prevents selected files from accidental removal.

To protect a single file:

1. Press ▶ to switch to **Playback** mode.

2. Press ▲ or ▼ to select the file that you want to protect.
3. Press **MENU** > ◀ ▶ > **Protect**.
4. Press **OK** or ▼ to enter the submenu.
5. Press ◀ or ▶ to select **Single** and press **OK**.
6. A confirmation message appears on the screen. Press ◀ or ▶ to select **Lock** and press **OK** to confirm file protection.




- A 🔒 icon appears on the protected file.
- To unlock a protected file, select Unlock.

7. Repeat Steps 2~6 to protect other files.

To protect multiple files:

1. Press ▶ to switch to **Playback** mode.
2. Press **MENU** > ◀ ▶ > **Protect**.
3. Press **OK** or ▼ to enter the submenu.
4. Press ◀ or ▶ to select **Multi** and press **OK**.
   The images are displayed in thumbnail view.
5. Press ▲ or ▼ to select the files that you want to protect and press ◀ or ▶ to mark the file for protection. A 🔒 icon appears on the marked files.

If the 🔒 icon does not appear on the thumbnail images, this indicates the files are not protected.

6. Press **OK** to lock the selected files.

To protect all files:

1. Press ▶ to switch to **Playback** mode.
2. Press **MENU** > ◀ ▶ > **Protect**.
3. Press **OK** or ▼ to enter the submenu.
4. Press ◀ or ▶ to select **Lock All** and press **OK**.

5. A confirmation message appears on the screen. Press ⏲ or |▭| to select **Yes** to confirm files protection.

You can remove the protection anytime by following the same procedure as shown above. Note that in Step 4 select Unlock All to unlock all files.

## Voice memo

Inserts a voice annotation to an image file.

To record a voice memo:

1. Press ▶ to switch to **Playback** mode.
2. Press ▲ or ▼ to select the image you want to add a voice memo.
3. Press **MENU** > ◀ ▶ > **Voice Memo**.
4. Press **OK** or ▼ to enter the submenu.
5. Press ⏲ or |▭| to select **Start** and press **OK** to start voice recording. During audio recording, select **Stop** and press **OK** to stop recording.

- The maximum audio recording time is 30 seconds.
- An 🎙 icon appears on the file that is attached with voice memo.

To play back a voice memo:

1. Press **OK** to play the voice memo.
2. Press ⏲ to pause the playback. Press ⏲ again to resume the playback.
3. Press |▭| to stop the playback.

## Resizing

Changes an image file to a smaller size, and overwrites the image file or saves it as another new file.

To resize an image:

1. Press ▶ to switch to **Playback** mode.
2. Press ▲ or ▼ to select the image you want to resize.
3. Press **MENU** > ◀ ▶ > **Resize**.
4. Press **OK** or ▼ to enter the submenu.

5. Press ⏱ or ▭ to select the target image size to which you want to reduce and press **OK**.
6. A confirmation message appears on the screen. Press ⏱ or ▭ to select **Yes** to confirm the change and save the image file.

- This function is only applicable to photos with 4:3 aspect ratio.
- The resize image is saved as a new file.
- Each photo can only be resized once.

## DPOF

The Digital Print Order Format (DPOF) setting allows you to select images on the memory card for printing and specify the number of print copies in advance using the camera. This is extremely convenient for sending the images to a photo developing service or for printing on a direct print function compatible printer.

To set up DPOF:

1. Press ▶ to switch to **Playback** mode.
2. Press **MENU** > ◀ ▶ > **DPOF**.
3. Press **OK** or ⚡ to enter the submenu.
4. Press ⏱ or ▭ to select **Select Images** and press **OK** to set the DPOF setting on the selected image.
   The images are displayed in thumbnail view.
5. Press ✿ or ⚡ to select the files that you want to mark for printing and press ⏱ or ▭ to specify the number of copies.

To view the selected file in full screen display, slide the Zoom lever to W▦. To switch back to thumbnail display, slide the Zoom lever to 🔍T.

6. Press **OK** to define the DPOF setting.
   - Press ⏱ or ▭ to select **Date,** and press ✿ or ⚡ to select whether you want to print the recording date/time.
   - Press ⏱ or ▭ to select **Info**, and press ✿ or ⚡ to select whether you want to print the recording data (aperture value and shutter speed).

7. After all settings are complete, press ◀ or ▶ to select **Done** and press **OK**.

To reset DPOF:

1. Press ▶ to switch to **Playback** mode.
2. Press **MENU** > ◀ ▶ > **DPOF**.
3. Press **OK** or ▼ to enter the submenu.
4. Press ◀ or ▶ to select **Reset** and press **OK** to clear all DPOF settings.

## Copy

Copies files between internal memory and memory card.

This feature is only available if an unlocked memory card is inserted into the camera.

To copy the selected files:

1. Press ▶ to switch to **Playback** mode.
2. Press **MENU** > ◀ ▶ > **Copy**.
3. Press **OK** or ▼ to enter the submenu.
4. Choose the copy method, and press **OK** or ▼ to continue.
   - **Copy to Card**: copy all files stored in camera into the memory card.
   - **Copy to Camera**: copy all files stored in the memory card into the camera's internal memory.
5. Press ◀ or ▶ to **Selected Images** and press **OK** to select the files that you want to copy.
   The images are displayed in thumbnail view.
6. Press ▲ or ▼ to select the files and press ◀ or ▶ to mark for copying, and press **OK**.

To view the selected file in full screen display, slide the Zoom lever to W. To switch back to thumbnail display, slide the Zoom lever to T.

7. A confirmation message appears on the screen. Press ◀ or ▶ to select **Yes** and press **OK** to start copying the file.

To copy all files:

1. Press ▶ to switch to **Playback** mode.
2. Press MENU > ◀ ▶ > **Copy**.
3. Press **OK** or ⚡ to enter the submenu.
4. Choose the copy method, and press **OK** or ⚡ to continue.
5. Press ⏱ or ▭ to **All Images** and press **OK**.
6. A confirmation message appears on the screen. Press ⏱ or ▭ to select **Yes** and press **OK** to start copying all files.

## Movie Paste

Combines two videos that have the same specifications (movie size and frame rate) into one video.

To combine two video:

1. Press ▶ to switch to **Playback** mode.
2. Press ❀ or ⚡ to select the original (first) video.
3. Press MENU > ◀ ▶ > **Movie Paste**.
4. Press **OK** or ⚡ to enter the submenu.
   The videos with the same specifications as the original video are displayed in thumbnail view.
5. Press ❀ or ⚡ to select the second video and press ⏱ or ▭ to mark it.

To view the selected file in full screen display, slide the Zoom lever to W▦. To switch back to thumbnail display, slide the Zoom lever to 🔍T.

6. Press **OK** and a confirmation message appears on the screen.
7. Press ⏱ or ▭ to select **Yes** and press **OK** to merge the second video onto the end of the original (first) video.

- The total length of the combined videos cannot be longer than 30 minutes.
- After combining the videos, the second video will be deleted.

# Making connection

## Bundled software

The camera offers the following programs on a CD.

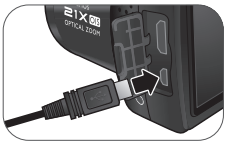
| | |
|---|---|
| ArcSoft MediaImpression™ | Easily, creatively, and productively manage your multimedia files. Create your own movies or photo slide shows, and share your photo, video and music files easily through simple e-mail attachments or popular photo printing and video sharing websites. |

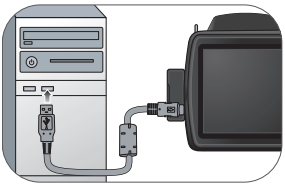
To install these programs, see the information supplied with the CD.

## Connecting the camera to a computer

You can connect the camera to a PC or notebook to transfer, view, print, or edit files.

To connect the camera to a computer:





1. Open the USB/AV port cover.
2. Connect the end of the smaller plug of the USB cable to the camera.
3. Turn on the camera.
4. Connect the other end of the USB cable to an available USB port on your computer.
5. Press or to select **Computer** and press **OK**.
6. Wait for the connection. A "PC Mode" message appears on the screen when the connection is established.
7. A **Removable Disk** icon appears in **My Computer**. Click this icon to access the files in your camera.

When connecting the camera to a computer, please use the original accessory of the USB cable to avoid possible system conflicts and damage to the camera.

English

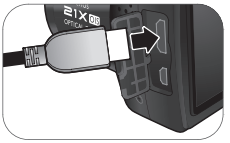
# Connecting the camera to a TV

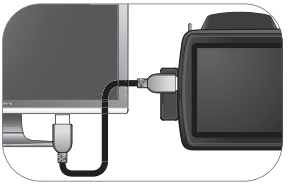
You can play files in your camera on a TV using an HDMI cable or AV cable.

- Before connecting the camera to a TV, set the TV Out to match TV's video output format. See "TV Settings" on page 46 for details.
- For details on changing the input source of the TV, refer to the TV's user's manual.
- Some TVs may not recognize the video format (1080p, 30fps). Please check the user manual that came with the TV for more assistance.

## To connect the camera to a TV using HDMI cable:

1. Turn on the camera.
2. Set the TV Out to match TV's video output format.
3. Connect the HDMI cable to the HDMI port on your camera.
4. Connect the other end of the HDMI cable to the TV's HDMI input port.
5. The LCD monitor turns black and all images and video clips are displayed on the TV.





Before connecting the HDMI cable to a TV, please turn on the camera first. The TV will not respond properly if you turn on the camera after the HDMI cable is connected.

## To connect the camera to a TV using AV cable:

1. Open the USB/AV port cover.
2. Connect the TV and camera.
   - Connect the end of the smaller plug of an AV cable to the camera.
   - Connect the yellow video plug and the white audio plug of the AV cable to a video-input jack and an audio-input jack (left channel) on your TV.
3. Turn on the TV, and then switch the input source of the TV to "AV".
4. Turn on the camera.
5. Follow the on-screen instructions to operate the camera via the TV.

# Printing images

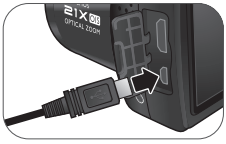
In addition to printing images by connecting the camera to a printer via a computer or bringing the memory card (if available) to a photo-processing center, you can choose to print using PictBridge.

## Printing with PictBridge

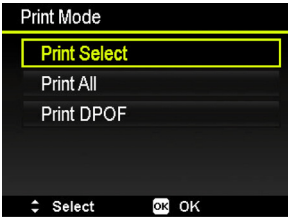
You can directly print images by connecting your camera to a PictBridge-compatible printer without using a computer.

To print images from a PictBridge-compatible printer:

1. Open the USB/AV port cover.
2. Connect the end of the smaller plug of the USB cable to the camera.
3. Connect the other end of the USB cable to an available USB port on your printer.



4. Turn on the printer. Wait for a while until it finishes starting up and is ready to print.
5. Turn on the camera.
6. Press ⏱ or ▭ to select **Printer** and press **OK**.
7. Wait for the connection.
8. On Print Mode menu, select one of the following options:
   - **Print Select**: select to configure the printing settings on the selected image.
   - **Print All**: Select to print all images at a time.
   - **Print DPOF**: Select to print only the images with DPOF tag. See "DPOF" on page 56 for details.




To set the printing settings on the selected files:

1. On Print Mode menu, press ⏱ or ▭ to select **Print Select** and press **OK** to select the files that you want to print. The images are displayed in thumbnail view.

2. Press ✿ or ϟ to select the files that you want to mark for printing and press ⏲ or |▭| to specify the number of copies.

---

- To view the selected image in full screen display, slide the Zoom lever to W▪. To switch back to thumbnail display, slide the Zoom lever to 🔍T.
- The maximum number of copies is 99.

---

3. Press **OK** to enter the printer settings.
   - Press ⏲ or |▭| to select **Paper Size,** and press ✿ or ϟ to select the desired paper size.
   - Press ⏲ or |▭| to select **Quality,** and press ✿ or ϟ to select the desired print quality.
   - Press ⏲ or |▭| to select **Capture Date,** and press ✿ or ϟ to select whether you want to print the recording date/time.
   - Press ⏲ or |▭| to select **Capture Info,** and press ✿ or ϟ to select whether you want to print the recording data (aperture value and shutter speed).
4. After all settings are complete, press ⏲ or |▭| to select **Print** and press **OK** to start printing.

To set the printing settings on all files:

1. On Print Mode menu, press ⏲ or |▭| to select **Print All** and press **OK** to select the files that you want to print.
   The images are displayed in thumbnail view. All images are marked for printing and the number of printing copies is automatically set to 1.
2. Press ✿ or ϟ to view the files and press ⏲ or |▭| to adjust the number of copies.

---

- To view the selected image in full screen display, slide the Zoom lever to W▪. To switch back to thumbnail display, slide the Zoom lever to 🔍T.
- The maximum number of copies is 99.

---

3. Press **OK** to enter the printer settings and set the necessary settings.

4. After all settings are complete, press ⏱ or |▭| to select **Print** and press **OK** to start printing.

To print all files with DPOF tag:

1. On Print Mode menu, press ⏱ or |▭| to select **Print DPOF**.
2. Press **OK** to enter the printer settings and set the necessary settings.
3. After all settings are complete, press ⏱ or |▭| to select **Print** and press **OK** to start printing.

- The above procedure may vary depending on the printer type you are using.
- If you connect the camera to your printer while the printer is still starting up, the camera will be automatically turned off.
- Failure to follow the above procedure will make the camera show an error message. Please disconnect the camera and the camera will be automatically turned off.

# Troubleshooting and service information

If your camera cannot operate normally, see the frequently encountered problems and solutions listed below. If the problem persists, contact your nearest service center or technical support.

| Problem | Cause | Solution |
|---|---|---|
| The camera cannot power up. | There is no battery or the batteries are not inserted correctly. | Insert the batteries correctly. |
| | The batteries have no power. | Replace the batteries. |
| The battery power is draining quickly. | The external temperature is extremely low. | -- |
| | Many shots are being captured in dark places, requiring a flash. | -- |
| The batteries or camera is warm. | The camera or flash was used continuously over a long period of time. | -- |
| The LCD screen is black. | The lens cover is on. | Remove the lens cover. |
| No image is displayed on the screen and the camera beeped four times. | The lens cover is on. | Remove the lens cover. |
| I cannot adjust the flash mode. | The flash is closed. | Open the flash. |
| The flash does not fire. | The camera flash is turned off. | Set the flash to Auto Flash. |
| | The light source is sufficient. | -- |

| Problem | Cause | Solution |
|---|---|---|
| Even though the flash fired, the image is dark. | The distance to the subject is greater than the flash's effective range. | Get closer to the subject and shoot. |
| The image is too bright or too dark. | The exposure is excessive or inadequate. | Reset exposure compensation. |
| I cannot format a memory card. | The memory card is write-protected. | Remove the write protection. |
| | End of the memory card life. | Insert a new memory card. |
| I cannot download images from the camera to my computer. | The free space on the hard disk of your computer is insufficient. | Ensure that the hard disk has enough space for running Windows and that the drive for loading image files has free space equal to or greater than the memory card in the camera. |
| | There is no power being supplied to the camera. | Replace the batteries. |

| Problem | Cause | Solution |
|---|---|---|
| The camera does not shoot even when pressing the **Shutter** button. | The batteries are running low. | Replace the batteries. |
| | The camera is not in **Capture** mode. | Switch to **Capture** mode. |
| | The **Shutter** button was not pressed all the way down. | Press the **Shutter** button all the way down. |
| | The internal memory or memory card does not have any free space. | Load a new card or delete unwanted files. |
| | The flash is recharging. | Wait until the flash mode icon, indicated on the screen, stops flashing. |
| | The camera does not recognize the memory card. | Format the memory card before the initial use or before using with another camera. |
| I cannot print images with PictBridge-compliant printers. | The camera is connected to the printer when the camera is powered off. | Connect the camera to the printer, turn on the camera, and then select **Printer**. |

## Technical support

For technical assistance, free driver updates, product information, and news releases, visit the following web site:

http://www.BenQ.com

# Specifications

| | |
|---|---|
| Sensor | Sony 16 Mega Pixels, 1/2.3 inch BSI CMOS |
| Zoom | Optical: 21X<br>Digital: Up to 5X (Preview) / Up to 10X (Playback) |
| Lens | f = 4.5 (W) ~ 94.5 (T) mm<br>F= 3.1 (W) ~ 5.8 (T)<br>(f = 25 mm ~ 525 mm, 35 mm equivalent) |
| Focus Range | Normal: W = 50 cm ~ Infinity; T = 500 cm ~ Infinity<br>Macro: W = 2 cm ~ Infinity; T = 60 cm ~ Infinity<br>Super Macro: 1 cm (M) ~ Infinity |
| LCD | 3.0” LCD 460k pixels |
| Image Resolution | 16M / 3:2 / 8M / 5M / 3M / 16:9 / VGA |
| Movie Mode | FHD 1080p (1920 x 1080) 60fps / HD 720p (1280 x 720) 60fps / VGA (640 x 480) 30fps<br>QVGA (320 x 240) 240fps, Continuous recording with sound |
| Shutter Speed | Auto: 1/2000 ~ 1 sec.<br>Manual mode: 1/2000 ~ 15 sec.<br>(Fireworks 2 sec.) |
| White Balance | Auto / Daylight / Cloudy / Tungsten / Fluorescent H / Fluorescent L / Manual |
| Exposure | -2.0 ~ +2.0 EV (0.3EV / step) |
| ISO | Auto / 160 / 200 / 400 / 800 / 1600 / 3200 (3M or lower) / 6400 (3M or lower) |
| Flash | Auto Flash / Auto Anti Red-eye / Forced On / Slow Sync / Forced Off |
| Drive mode | Off / 10 sec. / 2 sec. / Double |
| Power Source | CIPA approximately 400 (based on bundled AA Alkaline batteries); 580 based on Ni-MH batteries; 1000 based on Lithium batteries) |
| Storage Type | Built-in approx. 85MB (+-5%)<br>SD (up to 4GB) / SDHC (up to 32GB) / SDXC (> 32GB) |

| | |
|---|---|
| File Format | Still Image: JPEG (EXIF 2.3 compatible); DCF compatible; Support DPOF<br>Video: MOV<br>Audio: WAV<br>Sound: Stereo sound |
| Dimensions / Weight | 112.5 x 75.9 x 63.4 mm<br>370g (w/o batteries & SD card) |
| Interface | Digital output: USB 2.0 compatible<br>Audio / Video output (NTSC/PAL/HDMI)<br>PictBridge compatible |
| Accessories | USB Cable / Software & User Manual CD / Quick Guide / Lens Cover / Lens Strap / Neck Strap / Pouch (optional) / Non-rechargeable AA Batteries<br> Available accessories depend on the actual items shipped and may vary from the list above. |

All information, designs, and specifications are subject to change without prior notice.